

STABILOY® SunPlus® PV Cable: Connecting Solar Energy to the Grid

At Alcan Cable, we believe in a clean energy future. Which is why we developed STABILOY® SunPlus® PV cable, our aluminum alloy photovoltaic cable specifically designed to meet the growing demand of the solar market. STABILOY SunPlus PV cable offers exceptional reliability, durability and high-performance. Lightweight, flexible and easier to install than copper cables, STABILOY SunPlus PV cable addresses the demanding environmental conditions and installation challenges associated with solar projects. And STABILOY SunPlus PV cable is UL approved, guaranteeing a quality product that will perform reliably over time.



Conductivity



Insulation



Termination

Product Features:

- Meets or exceeds the requirements of UL 4703 Type PV
- Available in 600V and 2000V
- Sunlight-resistant RHH/RHW-2 (XLPE) and XHHW-2 insulation
- 90°C wet or dry
- Meets cold bend test at -40°C
- VW-1 flame test compliant
- Can be direct buried

The success of any solar project is only as good as the conductor used to transmit the solar power to the electrical grid. At Alcan Cable, we have been supplying aluminum cable products to make those connections for over 100 years. For photovoltaic power applications, STABILOY SunPlus PV cable offers quality, performance and confidence.

Application: Single conductor 600V or 2000V sunlight-resistant photovoltaic wire rated 90°C wet or dry for interconnection wiring of grounded and ungrounded photovoltaic power systems described in NEC Article 690.

- Stable electrical properties over a broad temperature range
- 8030 aluminum alloy
- Compact stranding

Value-Added Services That Reduce Costs: Alcan Cable provides programs that help our customers save money beyond the cost reductions generated by our high-quality aluminum alloy products.

Fixed Forward Pricing: This program allows for a secured, firm price contract, allowing our customers to accurately budget for cable purchases.

STAR® (Savings Through Alcan Recovery): We offer a comprehensive program to recover and recycle materials from the remnant and scrap conductors generated by solar projects.

STABILOY®
SunPlus®
PV CABLE



STABILOY® SunPlus® PV Conductors

Conductor Size (AWG/kcmil)	Conductor Diameter (inches)	Insulation Thickness (mils)	Cable Diameter (inches)	Aluminum Mass (lbs/MFT)	Cable Mass (lbs/MFT)	Nominal DC Resistance (Ω / kft @ 20°C)
6	0.169	85	0.339	24.7	61.60	0.661
4	0.213	85	0.383	39.3	82.80	0.415
2	0.268	85	0.438	62.5	114.40	0.261
1	0.299	105	0.509	78.8	154.60	0.207
1/0	0.336	105	0.546	99.4	183.00	0.164
2/0	0.376	105	0.586	125.3	217.50	0.130
3/0	0.423	105	0.633	157.9	260.40	0.103
4/0	0.475	105	0.685	199.2	313.30	0.082
250	0.520	120	0.760	235.3	375.80	0.069
300	0.570	120	0.810	282.4	435.20	0.058
350	0.616	120	0.856	329.4	493.90	0.050
400	0.659	120	0.899	376.5	538.20	0.043
500	0.736	120	0.976	470.6	649.00	0.035
600	0.813	135	1.083	564.7	785.80	0.029
700	0.877	135	1.147	658.8	895.50	0.025
750	0.908	135	1.178	705.9	950.10	0.023
900	0.999	135	1.269	847.1	1113.50	0.019
1000	1.060	135	1.330	941.2	1222.70	0.017

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For more information on Alcan Cable's aluminum alloy product solutions, go to www.cable.alcan.com or call toll-free (855) 720-2792.
 RE-0002 3/2012

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